

Aditya Ved

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Motivated and results-driven Mathematics and Computer Science student at UIUC, adept at leveraging analytical thinking, comprehensive programming skills, and experience with AI/ML and Full Stack Development to create innovative software solutions. Seeking to leverage proficiency with data structures, mathematical principles, and hands-on experience in software development to contribute effectively as a software engineer.

Quick learner, continuously striving to build technical expertise in a professional environment.

EDUCATION

University of Illinois Urbana-Champaign <i>4.0 GPA, Dean's List, Bachelor of Science in Mathematics and Computer Science</i>	Urbana-Champaign, IL <i>Aug. 2023 – May 2027</i>
Dougherty Valley High School <i>4.6/4.0 GPA, 1530 SAT (800 Math, 730 R/W), National Merit Commendation</i>	San Ramon, CA <i>Aug. 2019 – May 2023</i>

EXPERIENCE

Software Engineer, Research Assistant <i>Illinois Mathematics Lab</i>	Jan 2024 - Current
<ul style="list-style-type: none">Research Assistant to Professor Igor Mineyev, researching innovative solutions to popularize and disprove Kaplansky's Zero Divisor and Unit Conjecture, popular topics in modern Ring Theory and Topology.Used ReactJS with custom ReactFlow components to develop a web-based game "Color Taiko", Apache Cordova to package directories into a mobile compatible version"ColorTaiko!" is a crowd sourcing method to finding valid counter examples to Kaplansky's conjecture	
Autonomous Navigation Engineer <i>Illinois Robotics In Space (IRIS)</i>	Sept 2023 - Dec 2023
<ul style="list-style-type: none">Integrated ROS2, RTAB-Maps, Nav2, Gazebo, Python to build an autonomous navigation system for a lunar roverCompleted lunar rover to be submitted to the NASA Lunabotics competition at the Kennedy Space Center, FL	

PERSONAL PROJECTS AND TECHNICAL SKILLS

Real Time Sign Language Recognition <i>Python, TensorFlow, OpenCV, ReactJS, IBM Cloud</i>	Summer 2024
<ul style="list-style-type: none">Custom TensorFlow deep learning model to detect sign languageOpenCV to allow real time webcam detectionsTensorflowJS model hosted with IBM Cloud Object Storage for public useReactJS responsive frontendDeployed with IBM Cloud Code EngineWebsite Link: https://sign-lang-recog.1jplb85vqagb.us-east.codeengine.appdomain.cloud/	
CRUD User Management Software <i>NodeJS, Express, MongoDB, EJS, Bootstrap, AWS Cloud</i>	Summer 2024
<ul style="list-style-type: none">Full stack NodeJS user management portal with CRUD capabilitiesCustom built RESTful API with Express, Mongoose, and MongoDBFully responsive frontend with EJS and BootstrapDeployed with AWS EC2 instanceWebsite Link: https://aditya-ved-user-system.com/	

Languages: C++, Java, Python, JavaScript, HTML/CSS, SQL, Latex

Frameworks/Libraries: OpenAI API, LangChain, TensorFlow, Google Firebase, MongoDB, React, Streamlit

Developer Tools: Git, LMStudio, Docker, Andriod Studio, VS Code, PyCharm, Eclipse

Design Tools: Adobe Suite, ProCreate, CSS Web-Design

Mathematical Skills: Graph Theory, Number Theory, Discrete Structures, Calculus, Linear Algebra

Leadership: Bell Leadership Award Recipient, Wildcat Leadership Award Recipient

Communication: Excellent interpersonal communication skills enable me to collaborate with clients, stakeholders, and cross-functional teams to deliver high-quality results.